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# NOTICE OF ALLOWANCE AND FEE(S) DUE

32074

7590

04/05/2005

INTERNATIONAL BUSINESS MACHINES CORPORATION DEPT. 18G BLDG. 300-482 2070 ROUTE 52 HOPEWELL JUNCTION, NY 12533 EXAMINER
DANG, TRUNG Q

ART UNIT

PAPER NUMBER

2823

DATE MAILED: 04/05/2005

| 1 | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|-------------|----------------------|---------------------|------------------|
|   | 10/604,731      | 08/13/2003  | Geng Wang            | FIS920030209US1     | 1730             |

TITLE OF INVENTION: SELF-ALIGNED DRAIN/CHANNEL JUNCTION IN VERTICAL PASS TRANSISTOR DRAM CELL DESIGN FOR DEVICE SCALING

| APPLN. TYPE    |    |        | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|----|--------|-----------------|------------------|------------|
| nonprovisional | NO | \$1400 | \$300           | \$1700           | 07/05/2005 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### **HOW TO REPLY TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE **Commissioner for Patents** P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

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| 32074 75   | 32074 7590 04/05/2005   |   |   | papers. Each addition have its own certific  | onal paper, such as an assignment ate of mailing or transmission.  | ent or formal drawing, musi                             |  |  |
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| BLDG. 300-482  |   |   |   | transmitted to the U   | SPTO (703) 746-4000, on the c  | (Depositor's name)                                      |  |  |
| 2070 ROUTE 52<br>HOPEWELL JUNG   | CTION, NY 12533   |   |   |  |  | (Signature)   |  |  |
|  |   |   |   |  |  | (Date)  |  |  |
| APPLICATION NO.  | FILING DATE   |   | FIRST NAMED INVEN   | TOR  | ATTORNEY DOCKET NO.  | CONFIRMATION NO.  |  |  |
| 10/604,731   | 08/13/2003  |   | Geng Wang   |  | FIS920030209US1  | 1730  |  |  |
| TITLE OF INVENTION: SE   | elf-Aligned Drain/Ci  | HANNEL JUNCTI   | ION IN VERTICAL I   | ASS TRANSISTOR   | DRAM CELL DESIGN FOR   | DEVICE SCALING  |  |  |
| APPLN. TYPE  | SMALL ENTITY  | ISSUE F   | EE PI   | JBLICATION FEE   | TOTAL FEE(S) DUE   | DATE DUE  |  |  |
| nonprovisional   | МО  | \$1400  | 0   | \$300  | \$1700   | 07/05/2005  |  |  |
| EXAM   | INER  | ART UN  | IIT C   | ASS-SUBCLASS   |  |   |  |  |
| DANG, T  | RUNG Q  | 2823  | 1   | 438-268000   |  |   |  |  |
| 1. Change of correspondence CFR 1.363).  | address or indication of "F   | ee Address" (37   | 2. For printing on  | the patent front page,   | list   | -   |  |  |
|  | ence address (or Change of  | Correspondence  | (1) the names of or agents OR, alter  | ip to 3 registered par   | tent attorneys 1-  | <del></del>   |  |  |
|  | ence address (or Change of 22) attached.  |   | (2) the name of a single firm (having as a member a 2   |  |  |   |  |  |
| ☐ "Fee Address" indicate PTO/SB/47; Rev 03-02 o Number is required.  | ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. |   |   | registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. |  |   |  |  |
| 3. ASSIGNEE NAME AND   | RESIDENCE DATA TO B   | E PRINTED ON T  | THE PATENT (print of  | or type)   |  |   |  |  |
| PLEASE NOTE: Unless recordation as set forth in  | an assignee is identified be 37 CFR 3.11. Completion  | elow, no assignee of this form is NO  | data will appear on t<br>T a substitute for filin   | he patent. If an assi<br>g an assignment.  | gnee is identified below, the d  | ocument has been filed for                              |  |  |
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|  |   |   |   |  |  |   |  |  |
| Please check the appropriate   | assignee category or catego   | ries (will not be pr  | inted on the patent):   | ☐ Individual ☐   | Corporation or other private gro   | oup entity Government                                   |  |  |
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|  | mall entity discount permitte   |   | Payment by credit card. Form PTO-2038 is attached.  |  |  |   |  |  |
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| 5. Change in Entity Status (   |   |   | <u> </u>  |  |  |   |  |  |
|  | MALL ENTITY status. See   |   |   |  | ALL ENTITY status. See 37 C  |   |  |  |
| The Director of the USPTO i<br>NOTE: The Issue Fee and Pu<br>interest as shown by the recon  | s requested to apply the Issuablication Fee (if required) was of the United States Pate   | ne Fee and Publicate<br>will not be accepted<br>ent and Trademark                                   | tion Fee (if any) or to<br>I from anyone other th<br>Office.  | re-apply any previou<br>an the applicant; a re   | sly paid issue fee to the applica<br>gistered attorney or agent; or the  | tion identified above.<br>ne assignee or other party in |  |  |
| Authorized Signature   |   |   | Date  |  |  |   |  |  |
| Typed or printed name  |   |   |   |  |  |   |  |  |
| This collection of information an application. Confidentialit submitting the completed appthis form and/or suggestions Box 1450, Alexandria, Virgin Alexandria, Virginia 22313-1 | n is required by 37 CFR 1.3<br>ty is governed by 35 U.S.C.<br>plication form to the USPT<br>for reducing this burden, shia 22313-1450. DO NOT     | 11. The informatio<br>122 and 37 CFR<br>O. Time will vary<br>lould be sent to the<br>SEND FEES OR C | n is required to obtain<br>1.14. This collection i<br>depending upon the<br>Chief Information O<br>COMPLETED FORM   |  | the public which is to file (and 2 minutes to complete, including comments on the amount of tird Trademark Office, U.S. Depts. SEND TO: Commissioner |   |  |  |

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PTOL-85 (Rev. 12/04) Approved for use through 04/30/2007.



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| 32074                        | 7590 04/05/2005   |                         | EXAMINER            |                  |  |
| INTERNATIO:                  | NAL BUSINESS MACH | DANG, T                 | DANG, TRUNG Q       |                  |  |
| CORPORATIO                   | )N                | ART UNIT                | PAPER NUMBER        |                  |  |
| DEPT. 18G                    |                   | ARTONII                 | TATER NOMBER        |                  |  |
| BLDG. 300-482                |                   | 2823                    |                     |                  |  |
| 2070 ROUTE 52<br>HOPEWELL JU | NCTION, NY 12533  | DATE MAILED: 04/05/2005 |                     |                  |  |

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 64 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 64 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.